

IN THE SPECIFICATION:

Amend the specification as follows:

Insert the heading beginning on page 1, line 3 as follows:

BACKGROUND OF THE INVENTION

Replace the header beginning on page 1, line 4 with the following rewritten heading:

1. Field of the Invention

Replace the header beginning on page 1, line 9 with the following rewritten heading:

2. Background of the Invention Description of the Related Art

Replace the paragraph beginning on page 1, line 10 with the following rewritten paragraph:

Three-dimensional weaving machines for weaving three-dimensional five-axial woven fabrics are well known. These weaving machines are described, for example, in Japanese Patent Application Laid Open (Tokkai-Hei) No. 3-76845, Japanese Patent Application Laid Open (Tokkai-Hei) No. 4-11043, and in Japanese Patent Application Laid Open (Tokkai-Hei) No. 5-106140. As described in each of [[the]] these publications, the three-dimensional weaving machine guides warps and bias yarns to a cloth fell and inserts vertical yarns into the cloth fell from above or below a yarn layer. Further, a weft insertion rapier inserts wefts into the yarn layer

A¹ to allow the vertical yarns to connect the warps, the wefts, and the bias yarns together, thereby manufacturing a three-dimensional five-axial woven fabric.

Replace the paragraph beginning on page 2, line 6 with the following rewritten paragraph:

A² The present invention is ~~characterized in that in weaving~~ weaves a three-dimensional five-axial woven fabric using a three-dimensional weaving machine, a solid structural material is manufactured by alternately driving upper and lower insertion members for inserting vertical yarns from above and below, respectively, in such a manner that each of the insertion members and a weft insertion rapier are driven with different timings, thereby forming divisibly woven sections in portions of a manufactured three-dimensional five-axial woven fabric.

Replace the heading beginning on page 3, line 1 with the following rewritten heading:

Brief Description of the ~~Drawing~~ Drawings

Replace the heading beginning on page 4, line 7 with the following rewritten heading:

Detailed Description of the Preferred ~~Embodiments~~ Embodiments

Replace the paragraph beginning on page 5, line 21 with the following rewritten paragraph:

A³ Before insertion of the vertical yarns Z, the weft insertion rapier is driven to insert each of two wefts Y into the outside of the corresponding yarn sublayer of the bias yarns B1, B2. Then,

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as shown in FIG. 2, in each yarn layer, the upper insertion member 2 passes between the bias yarns B1 and B2, between the warps X, and then between the bias yarns B1 and B2 and then lowers to insert the vertical yarn Z from above the yarn layer. Further, as shown in FIG. 3, the upper insertion member 2 moves toward the cloth fell 1 and then beating is ~~[[done]]~~ performed by the upper insertion member 2. Subsequently, as shown in FIG. 4, the upper insertion member 2 recedes from the cloth fell 1, and one weft Y is inserted between the yarn sublayers of the warps X. Subsequently, as shown in FIG. 5, the upper insertion member 2 moves toward the cloth fell 1, and subsequently beating is done by the upper insertion member 2, and then the upper insertion member 2 moves upward from the yarn layer. Then, the upper insertion member 2 is removed from the yarn layer. Thus, the vertical yarn Z crosses the weft Y in the upper part of the yarn layer, and the vertical yarn Z crosses the weft Y between the yarn-sublayers of the warps X so as to connect the wefts Y together.

Replace the paragraph beginning on page 6, line 16 with the following rewritten paragraph:

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Further, simultaneously with the elevation of the upper insertion member 2 from the yarn layer, in each yarn layer, the lower insertion member 3 passes between the bias yarns B1 and B2, between the warps X, and then between the bias yarns B1 and B2 and then elevates to insert the vertical yarn Z from below the yarn layer. Further, as shown in FIG. 6, the lower insertion member 3 moves toward the cloth fell 1 and then beating is ~~[[done]]~~ performed by the lower insertion member 3. Subsequently, as shown in FIG. 7, the lower insertion member 3 recedes

from the cloth fell 1, and one weft Y is inserted between the yarn sublayers of the warps X.

Subsequently, similarly to the upper insertion member 2, the lower insertion member 3 moves toward the cloth fell 1, and subsequently beating is ~~[[done]]~~ performed by the lower insertion member 3, and then moves downward from the yarn sublayer of the bias layers. Then, the lower insertion member 3 is removed from the yarn layer. Thus, the vertical yarn Z crosses the weft Y in the lower part of the yarn layer, and the vertical yarn Z crosses the weft Y between the yarn sublayers of the warps X so as to connect the wefts Y together.

Replace the paragraph beginning on page 7, line 16 with the following rewritten paragraph:

Further, after formation of the divisibly woven section S1, two wefts Y are each inserted into the outside of the corresponding yarn sublayer of the bias yarns B1, B2, and one weft Y is inserted between the yarn sublayers of the warps X. Subsequently, the upper insertion member 2 lowers, while simultaneously the lower insertion members 3 elevates, and the vertical yarns Z are inserted into the yarn layer from above and below it. Further, the upper and lower insertion members 2, 3 move toward the cloth fell 1, and subsequently beating is ~~[[done]]~~ performed by the upper and lower insertion members 2, 3, and then recede therefrom. Subsequently, two wefts Y are each inserted into the outside of the corresponding yarn sublayer of the bias yarns B1, B2, and one weft Y is inserted between the yarn sublayers of the warps X. The upper and lower insertion members 2, 3 move toward the cloth fell 1, and subsequently beating is ~~[[done]]~~ performed by the upper and lower insertion members 2, 3. Then, the upper insertion member 2

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elevates, while simultaneously the lower insertion member 3 lowers, whereby the upper and lower insertion members 2, 3 are removed from the yarn layer. As a result, the vertical yarn Z crosses the weft Y in both the upper and lower parts of the yarn layer so as to connect the wefts Y together.
